



July 3, 2014

MICROLINE
LORETTA TRAPP
4462 DURAFORM LANE
WINDSOR WI 53598-9716

WATER RIGHT INCORPORATED
KURT GRUETT
1900 PROSPECT COURT
APPLETON WI 54914

Re: Description: WATER TREATMENT DEVICE - REVERSE OSMOSIS
Manufacturer: WATER RIGHT INCORPORATED
Product Name: ECLIPSE (POU)
Model Number(s): WRO-35 (POU)
Product File No: 20140194

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters SPS 382 through 384, Wisconsin Administrative Code, and Chapters 145 and 160, Wisconsin Statutes.

The Department hereby issues an approval based on the Wisconsin Statutes and the Wisconsin Administrative Code. This approval is valid until the end of July 2019.

This approval supersedes the approval issued on June 3, 2009 under product file number 20090223.

This approval is contingent upon compliance with the following stipulation(s):

- This product has undergone sufficient testing to document the product's ability to reduce only those contaminants and/or substances as specified in this approval letter when the product is installed and maintained in strict accordance with the manufacturers published instructions.
- For buildings not served by a municipal water supply, Department of Natural Resources (DNR) written approval may be required prior to installation of this product in a water supply system to reduce the concentration of a contaminant that exceeds the primary drinking water standards contained in ch. NR 809, Wis. Admin. Code, the enforcement standards contained in ch. NR 140, Wis. Admin. Code, or for a water supply system that is subject to a written advisory opinion by the DNR. For more information contact the DNR Section of Private Water Systems, P.O. Box 7921, Madison, WI 53707, telephone (608) 266-3415.
- If these approved devices are modified or additional assertions of function or performance are made, then this approval shall be considered null and void, unless the change is submitted to the department for review and the approval is reaffirmed.
- These devices will only reduce the concentration of cysts/oocysts at water outlets that are served by the devices. Therefore, using point-of-use devices such as these will not protect all routes of potential exposure. Potentially hazardous exposures to cysts/oocysts will remain possible at unprotected outlets.

The presence of cysts/oocysts strongly suggests that other pathogens (e.g. bacteria, virus) may also be present.

If, by way of reputable water analyses, a water supply is known to contain cysts/oocysts, then all the water entering the residence must be treated at the point-of-entry, using an approved water treatment device, to address all potential routes of exposure thereby providing a biologically safe water supply.

➤ The system shall be provided with an in-line total dissolved solids (TDS) monitor, or other acceptable means, to warn the user when the system is not performing its functions. Acceptable alternatives to an in-line TDS monitor include:

1. terminating the discharge of treated water;
2. sounding an alarm which is connected to acceptable power source;
3. flashing a light connected to an acceptable power source;
4. providing the user with an obvious, readily interpretable, indication of the system's ability to perform (e.g. decreasing the flow rate of treated water by 50% or more for systems making mechanical filtration claims;
5. providing a sampling service by the manufacturer, either directly or through an authorized dealer, a minimum of once every six months;
6. providing a sampling kit for analysis of TDS or other appropriate contaminants; or
7. providing a TDS monitor to measure the product water quality.

Whichever means of performance verification is selected, it shall be clearly described in the owner's manual for this device, and approved for use along with the device.

Based on testing data submitted to and reviewed by the department, this approval recognizes that this plumbing product will reduce the concentration of contaminants as specified on pages 1 through 3 of this letter.

HEALTH EFFECTING INORGANIC CONTAMINANT REDUCTION CAPABILITIES
PRODUCT FILE NUMBER 20140194
TABLE 1 OF 3

Product Water Production Rate: 49.2 liters per day (lpd) [13.0 gallons per day gpd)]

Tested Contaminant	Tested Influent Concentration (mg/l) ¹
Arsenic (As ⁺⁵)	0.30 ± 10%
Barium (Ba ⁺²)	10.0 ± 10%
Cadmium (Cd ⁺²)	0.03 ± 10%
Copper (Cu ⁺²)	3.0 ± 10%
Fluoride (F ⁻¹)	8.0 ± 10%
Hexavalent Chromium (Cr ⁺⁶)	0.15 ± 10%
Lead (Pb ⁺²)	0.15 ± 10%
Nitrate (NO ₃ ⁻)	27.0 ± 10%
Nitrite (NO ₂ ⁻)	3.0 ± 10%
Radium 226/228 (<i>barium surrogate</i>)	25 pCi/L
Selenium (Se ⁺⁴ and Se ⁺⁶)	0.10 ± 10%
Trivalent chromium (Cr ⁺³)	0.15 ± 10%

Other conditions: the contaminant reduction capabilities displayed for table 1 of 3 were generated by testing conducted in accordance with NSF/ANSI Standard 58. To qualify for arsenic reduction, the device must reduce the influent challenge concentrations such that all effluent concentrations are ≤ 0.010 mg/l. To qualify for barium reduction, the device must reduce the influent challenge water concentrations such that all effluent concentrations are ≤ 2.0 mg/l. To qualify for cadmium reduction, the device must reduce the influent challenge concentrations such that all effluent concentrations are ≤ 0.005 mg/l. To qualify for copper reduction, the device must reduce the influent challenge water concentrations such that all effluent concentrations are ≤ 1.3 mg/l. To qualify for fluoride reduction, the device must reduce the influent challenge concentrations such that all effluent concentrations are ≤ 1.5 mg/l. To qualify for chromium reduction (i.e. trivalent or hexavalent), the device must reduce the influent challenge concentrations such that all effluent concentrations are ≤ 0.1 mg/l. To qualify for lead reduction, the device must reduce the influent challenge concentrations such that all effluent concentrations are ≤ 0.010 mg/l. To qualify for

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nitrate/nitrite reduction, the device must reduce the influent challenge water concentrations, such that all effluent concentrations are ≤ 10.0 mg/l (as N), also, no more than 1.0 mg/l (as N) shall be in the form of nitrite. To qualify for radium reduction, the device must reduce the influent barium challenge concentrations such that all effluent concentrations are ≤ 2.0 mg/l (barium is used as a surrogate based on its relationship with radium on the periodic table and the difficulty in using radium for routine testing). To qualify for selenium reduction, the device must reduce the influent challenge concentrations such that all effluent concentrations are ≤ 0.05 mg/l.

1 = milligrams per liter (mg/l) are equivalent to parts per million (ppm)
 \leq = less than or equal to

\pm = plus or minus
* = unless otherwise indicated

HEALTH EFFECTING BIOLOGICAL CONTAMINANT REDUCTION CAPABILITIES
PRODUCT FILE NUMBER 20140194
TABLE 2 OF 3

Product Water Production Rate: 49.2 liters per day (lpd) [13.0 gallons per day gpd)]

Tested Contaminant	Influent Challenge (#/ml)
Cysts/Oocysts ¹	$\geq 5.0 \times 10^4$

Other Conditions: the contaminant reduction performance capabilities displayed for Table 2 of 3 were verified by testing conducted in accordance with NSF *International* Standard 58. To qualify for cyst/oocyst reduction, the device must reduce the influent challenge concentrations by $\geq 99.95\%$ at each sample point.

1 = the specific organisms covered under this testing protocol include cryptosporidium parvum, entamoeba histolytica, giardia lamblia and toxoplasma gondii
 \geq = greater than or equal to

#/ml = particles per milliliter

AESTHETIC INORGANIC CONTAMINANT REDUCTION CAPABILITIES
PRODUCT FILE NUMBER 20140194
TABLE 3 OF 3

Product Water Production Rate: 49.2 liters per day (lpd) [13.0 gallons per day gpd)]

Tested Contaminant	Tested Influent Concentration (mg/l) ¹
Total Dissolved Solids (TDS)	750 ± 40

Other conditions: the contaminant reduction capabilities displayed for table 3 of 3 were generated by testing conducted in accordance with NSF/ANSI Standard 58. To qualify, the device shall reduce the influent challenge concentrations by $\geq 75\%$.

1 = milligrams per liter (mg/l) are equivalent to parts per million (ppm)
 \pm = plus or minus

\geq = greater than or equal to

If these approved devices are modified or additional assertions of function or performance are made, then this approval shall be considered null and void, unless the change is submitted to the department for review and the approval is reaffirmed. The department is in no way endorsing this product or any advertising, and is not responsible for any situation that may result from its use.

Sincerely,

Glen W. Schlueter
Environmental Engineer - Plumbing Product Reviewer
Department of Safety and Professional Services
Division of Industry Services
Bureau of Technical Services
(608) 267-1401 Phone
(608) 267-9723 Fax
glen.schlueter@wi.gov E-mail